

Zhe yin's energy and Wave theorem

Zhe yin

Abstract— This paper presents new findings about energy and wave. We present three results : firstly, the force has a function of reflection and refraction; secondly, the energy and the wave coexist; thirdly, the field change is the necessary and sufficient conditions of energy conversion.

Index Terms—energy, wave, gravitational waves, entanglement of electron.

I. INTRODUCTION

First, the laws of nature do not exist two kinds of laws, which are microscopic world and macroscopic world. And also do not exist two kinds of theories, which are narrow theory and generalized theory. We proposed the constitution of nature, the production of wave, the production of force, the production of energy and the relations of above three. We also proposed the conversion conditions and laws of energy.

II. THEORETICAL PREPARATION

Electrons themselves are uncharged, and only when they are around the nucleus are they be charged. The mass ratio of electron and nuclear is too large, we argue that the electron is the energy point or wave source point of "no quality".

The universe is an energy field full of electrons[1]. Rotating electron flow is a wave source of gravitational waves (energy source), and gravitational waves transfer through cyberspace.

Rotating collection of quality is also a wave source of gravitational waves. Because rotations of the planets in the universe produce gravitational waves, the universe is filled with gravitational wave. Quality collections are the wave sources of gravitational waves, and transfer waves in cyber space.

All collections of mass are collections of energy, wave sources, and the center of rotation of electron flow is the wave source (energy source).

Wave source is the energy source.

Objects are the gravitational wave sources, and also are the energy sources, energy collections.

III. MAIN RESULTS

Theorem 1. Force is the role of energy collection (object or wave source) to energy collection (object or wave source). Force has a nature of reflection, refraction and diffraction (due to wave trajectory is spiral). A force is greater than the force of reflection.

Theorem 2. The role of the force is the generation of energy (wave or potential difference).

Theorem 3. (Gravitational waves existence theory)[2,3]

There are two points A, B. A is the wave source of gravitational field, and B is a point in the gravitational field. The existence of energy rotational motion (including electron or atom) at A is the necessary and sufficient condition of the existence of gravitational waves at B. Direction is the direction of the outer path tangent at point B, which is in the direction of the reflected wave direction.

Proof. Let the distance of A and B be r , if A, B are stationary points, it only exists the physical factor of "distance r ", do not form elements of waves. Only the rotational movement can generate speed and energy. That is the speed of B point V_b and the angular velocity of A point $d\theta$ have a functional relationship.

$$V_b = f(d\theta, r), \text{ when time } \Delta t \rightarrow 0, \text{ angular velocity } \Delta\theta \rightarrow 0, \text{ and}$$

$$V_b = dr/dt = \lim_{\Delta\theta \rightarrow 0} \{[f(\theta + \Delta\theta), r] - [f(\theta), r]\} / \Delta\theta$$

We have a conclusion that A is the wave source of gravitation, and point B exists the gravitational wave emitted from wave source A (self rotation of A is equal to the rotation of B around A).

Theorem 4. (Gravitational wave stability theory)[2,3] A is a gravitational wave source, B is a point in gravitational field of A. The necessary and sufficient conditions of stable gravitational wave at B point is :

$$dr/d\theta = b, \text{ (b is a constant) .}$$

Prove : According to Theory 3,

$$V_b = dr/dt = \lim_{\Delta\theta \rightarrow 0} \{[f(\theta + \Delta\theta), r] - [f(\theta), r]\} / \Delta\theta$$

The necessary and sufficient conditions of stable gravitational wave is that the speed of B point is stable ;

The necessary and sufficient conditions of stable speed at B point are that the angular velocity of A point is stable;

The necessary and sufficient conditions of stable angular velocity of A point is that the angular velocity of A point and speed of B point is proportional.

That is,

$$V_b/d\theta = dr/d\theta = b, \text{ (b is a constant) , and}$$

$r = a + b\theta$ is the equation of gravitational waves , that is the track of gravitational waves.

Corollary 1. If a gravitational wave track meet Archimedean spiral, this must be stable gravitational waves.

There is, $r = a + b\theta$.

r is the distance of A to B; a is the spiral length of A to B; b is the distance between the spirals.

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Theorem 5. The role of wave source to another wave source in unit time, generates the forms of kinetic energy, sound energy, electricity energy and heat energy.

Theorem 6. The necessary and sufficient conditions of energy conversion in energy field is the energy field is variable filed, which means the derivative of force is not zero.

Prove : According to the impulse law, the necessary and sufficient conditions of variable field is the shift field. the necessary and sufficient conditions of shift field is that the electronic variable speed movement is an uneven movement. Uneven field potential results in potential difference. Potential difference is the source of all generation of energy.

Theorem 7. Gravitational waves are electron field of electron wave.

Explanation : The universe is composed of matter and electrons and the space other than matter is filled with electrons. Substance is composed of atoms and electrons. Wave or energy that can penetrate cosmic are only electrons. Gravitational waves are electronic propagation.

The space between the nucleus is large, when a gravitational wave goes by, the reflected wave is least. This is why uniform structure like silicas, benzene and other substances has strong penetrating gravitational wave.

Theorem 8. light waves is Gravitational waves with heat energy.

Theorem 9. Gravitational wave quality set (wave source), its borders are a potential difference (static) °

Theorem 10. Earth's interior direction of the force is the Earth's surface, the Earth and the Earth's surface are all substances with a wave source. Object around earth(not ground) only influenced by earth waves (the pressure generated by earth's gravitational waves) and sun gravitational waves.

Corollary 2 . Brownian motion is the effect of gravitational waves.

Theorem 11. Gravitation gravitational waves depends on the density of electrons and compare. Fluid buoyancy is similar. Any planet gravitational waves can not attract electrons. This is why the space is filled with electrons.

Theorem 12. Energy is the entanglement of electron.

IV. CONCLUTION

The laws of nature is not transferred by human's will, for human peace and development, the need to retain some of the truth when I also agree with this view. For example, two-way isotropic monotonic accumulation, depending on the length of time, generated magnetic force is controllable.